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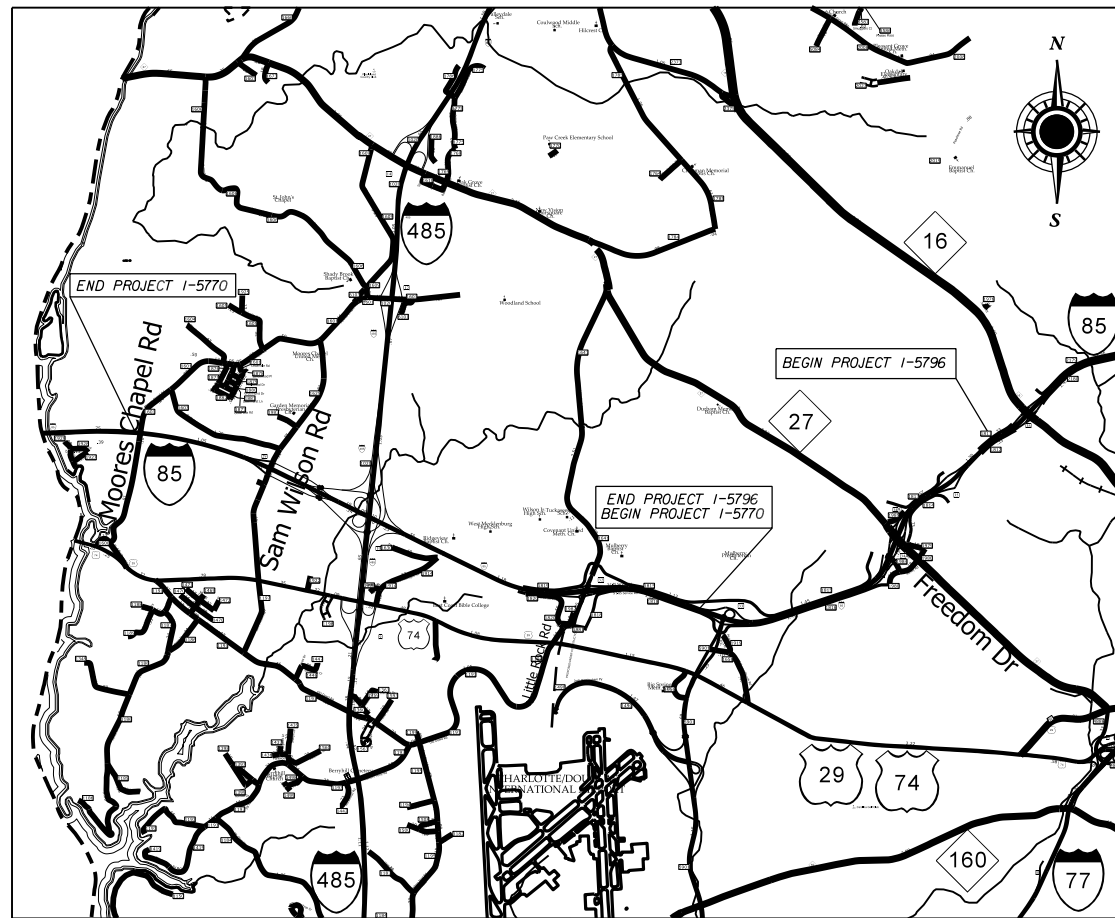
**CONTRACT: C204116 TIP: I-5796 & I-5770**

STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS  
**MECKLENBURG COUNTY**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5796 & I-5770	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
50440.1.1	NHPIM-0085(033)	P.E.	
53012.1.1	NHPIM-0085(037)	P.E.	
53012.3.1	NHPIM-0085(037)	CONST.	

**LOCATION:** I-85 NB AND SB FROM THE CONCRETE PAVEMENT JOINT 0.3 MILES SOUTH OF NC 16 TO CONCRETE PAVEMENT JOINT SOUTH OF MOORES CHAPEL RD.(SR-1601) MM 35.93 TO MM 28.36

**TYPE OF WORK:** DIAMOND GRINDING, POLYUREA PAVEMENT MARKINGS AND SNOWPLOWABLE PAVEMENT MARKERS



**GRAPHIC SCALES**

**DESIGN DATA**

ADT 2016 = 73,000  
 ADT - =  
 DHV = - %  
 D = - %  
 T = - %  
 V = 60 MPH

**PROJECT LENGTH**

LENGTH OF ROADWAY PROJECT 53012.3.1 = 7.57 MILES  
 TOTAL LENGTH OF STATE PROJECT 53012.3.1 = 7.57 MILES

Prepared in the Office of:  
**DIVISION OF HIGHWAYS**  
 DIVISION TEN  
 DIVISION DESIGN / CONSTRUCT UNIT

RIGHT OF WAY DATE:  
 NA

LETTING DATE:  
 MARCH 20, 2018

**TERRY BURLESON**  
 PROJECT ENGINEER

**TERRY BURLESON**  
 PROJECT DESIGN ENGINEER

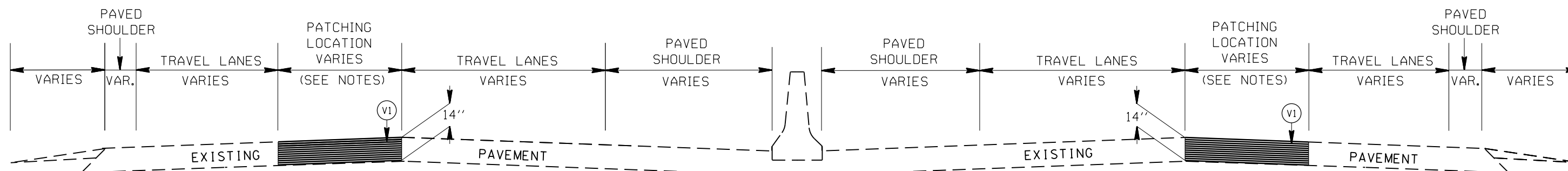


DIVISION OF HIGHWAYS  
 STATE OF NORTH CAROLINA

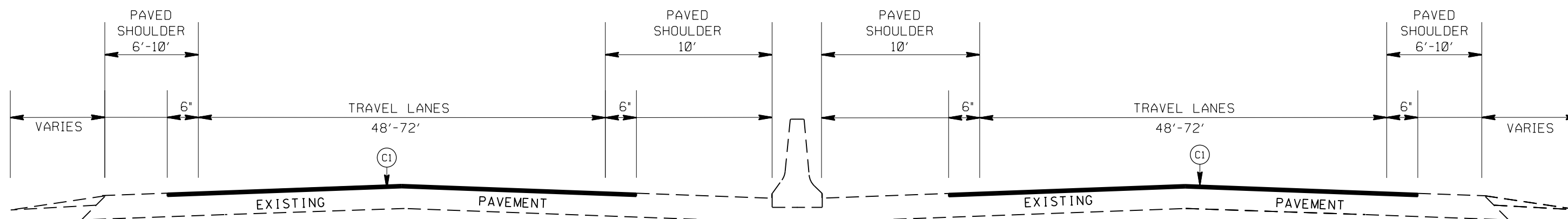
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5769 & I-5770	2	
F.A. PROJECT NO.			

### PAVEMENT SCHEDULE

(C1)	DIAMOND GRINDING
(V1)	14" PCC SLAB REPAIR



### TYPICAL SECTION NO. 2 I-85 MAINLINE



### TYPICAL SECTION NO. 1 I-85 MAINLINE

**NOTES:**

- SLAB REPAIR SHALL BE COMPLETED PRIOR TO THE DIAMOND GRINDING PROCESS.
- SLAB REPAIR LOCATIONS MAY VARY FROM LANE TO LANE AS DETERMINED BY THE ENGINEER.
- SEE STANDARD DRAWING 700.05 WHEN TYING CONCRETE PAVEMENT REPAIR TO EXISTING CONCRETE PAVEMENT.
- PRIOR TO PLACING PAVEMENT MARKING MATERIAL ON CONCRETE SURFACES THAT ARE DIAMOND GROUND, USE AN ACCEPTABLE METHOD TO GRIND RIDGES SMOOTH ONLY WHERE PAVEMENT MARKINGS WILL BE INSTALLED.

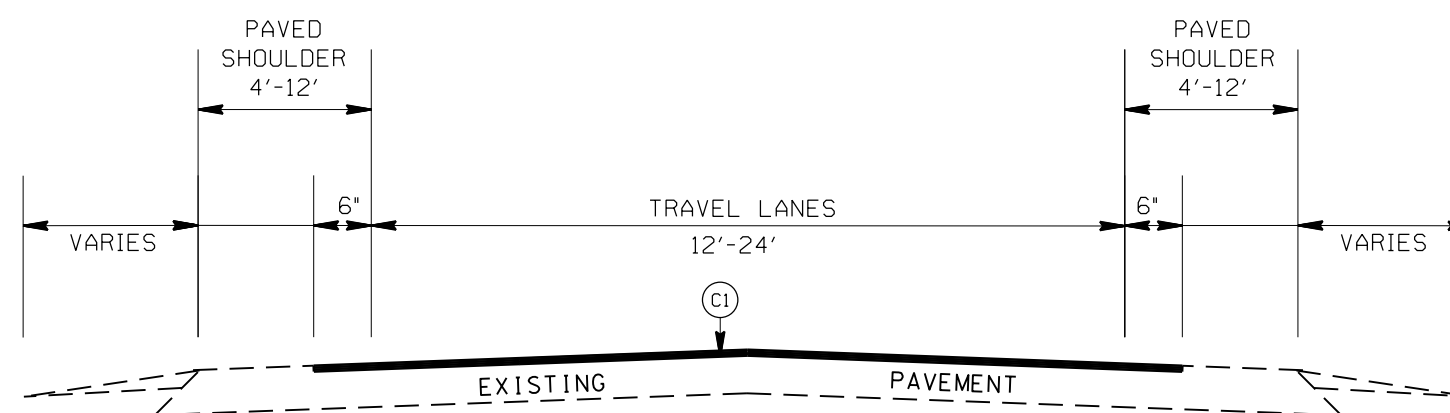
I-85 NB AND SB  
FROM THE CONCRETE PAVEMENT JOINT 0.3 MILES  
SOUTH OF NC 16 TO CONCRETE PAVEMENT JOINT  
SOUTH OF MOORES CHAPEL RD. (SR-1601)  
MM 35.93 TO MM 28.36

SCALE	r=50'		REVISIONS
DATE	5/17		
DWG. BY	JDH		
DESIGN BY			
APPROVED			

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5769 & I-5770	3	
F.A. PROJECT NO.			

### PAVEMENT SCHEDULE

(C1)	DIAMOND GRINDING
(V1)	14" PCC SLAB REPAIR



### TYPICAL SECTION NO.3 RAMPS

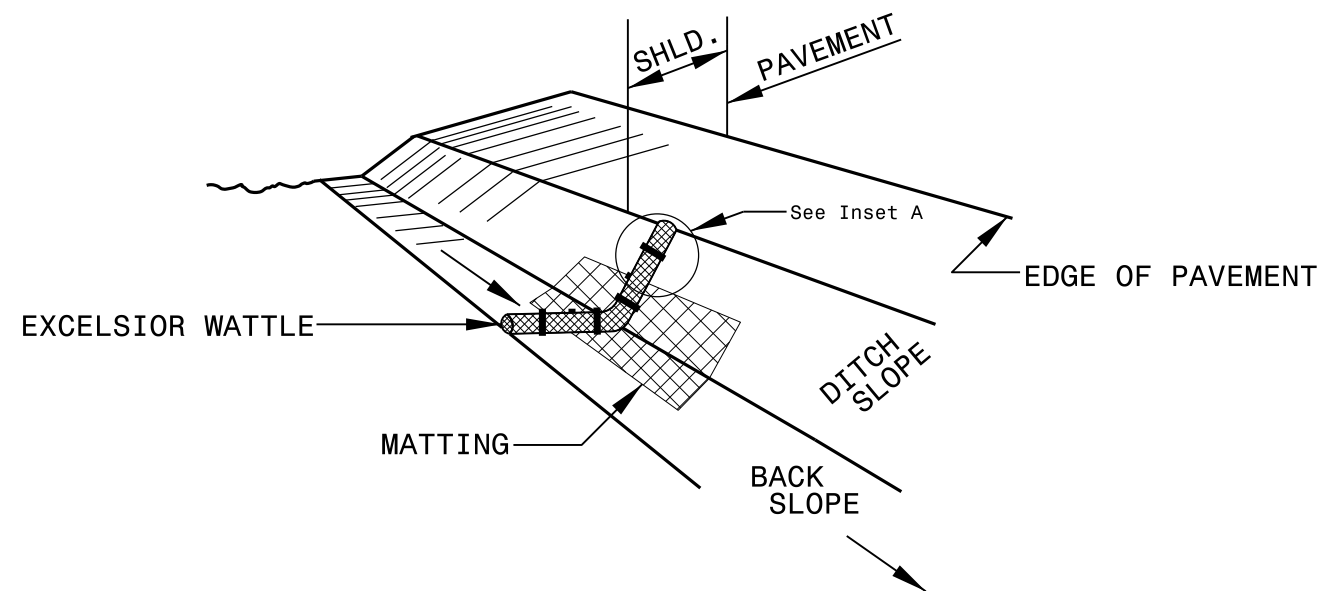
**NOTES:**

- CONTRACTOR SHALL DIAMOND GRIND CONCRETE RAMPS TO THE END OF THE CONCRETE.
- DIAMOND GRINDING WILL NOT BE NEEDED ON THE RAMPS AND COLLECTOR/DISTRIBUTOR LANES AT THE I-485 AND I-85 INTERCHANGE.
- DIAMOND GRINDING WILL NOT BE NECESSARY IN THE GORE AREAS.
- TO PREVENT TRAPPING WATER ON THE MAINLINE, THE CONTRACTOR SHALL EXTEND THE GRINDING AS NEEDED ON THE PAVED SHOULDER.

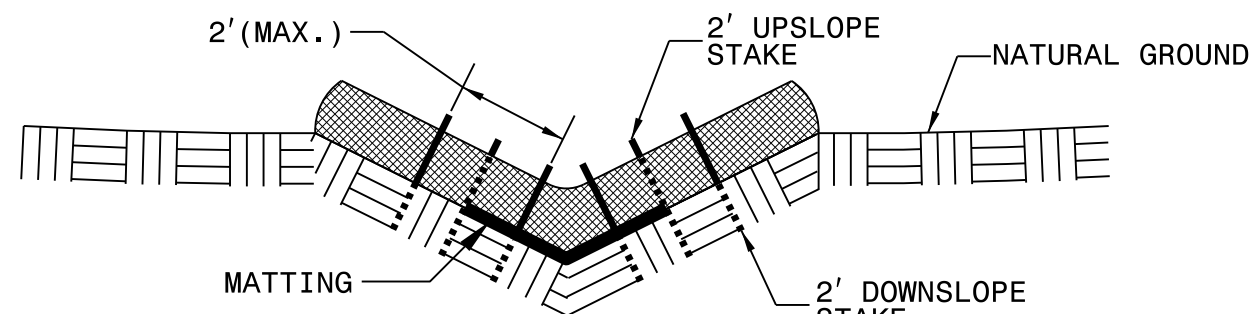
I-85 NB AND SB FROM THE CONCRETE PAVEMENT JOINT 0.3 MILES SOUTH OF NC 16 TO CONCRETE PAVEMENT JOINT SOUTH OF MOORES CHAPEL RD. (SR-1601) MM 35.93 TO MM 28.36		REVISIONS	
SCALE	r=50'		
DATE	5/17		
DWG. BY	JDH		
DESIGN BY			
APPROVED			



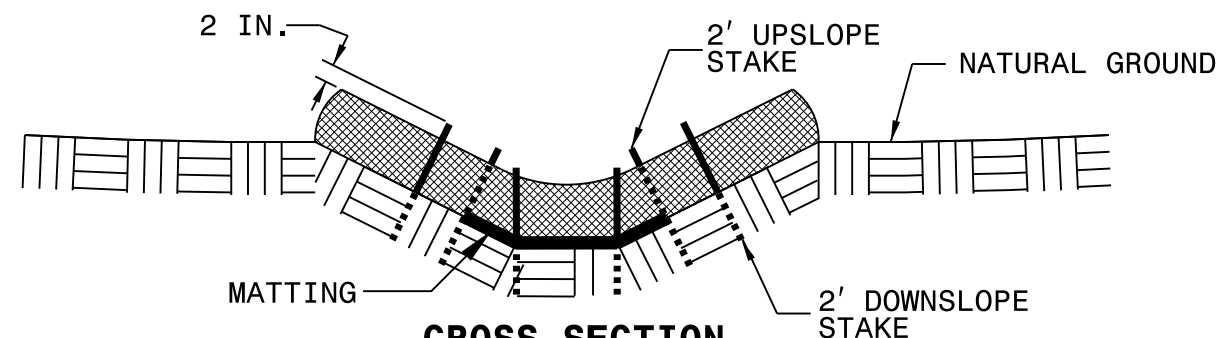
# WATTLE DETAIL



**ISOMETRIC VIEW**



**CROSS SECTION  
VEE DITCH**



**CROSS SECTION  
TRAPEZOIDAL DITCH**

**NOTES:**

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

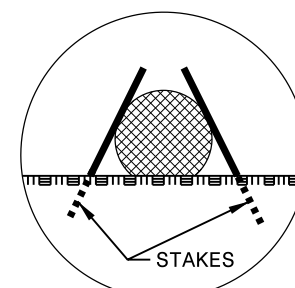
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

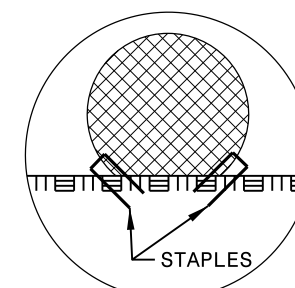
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

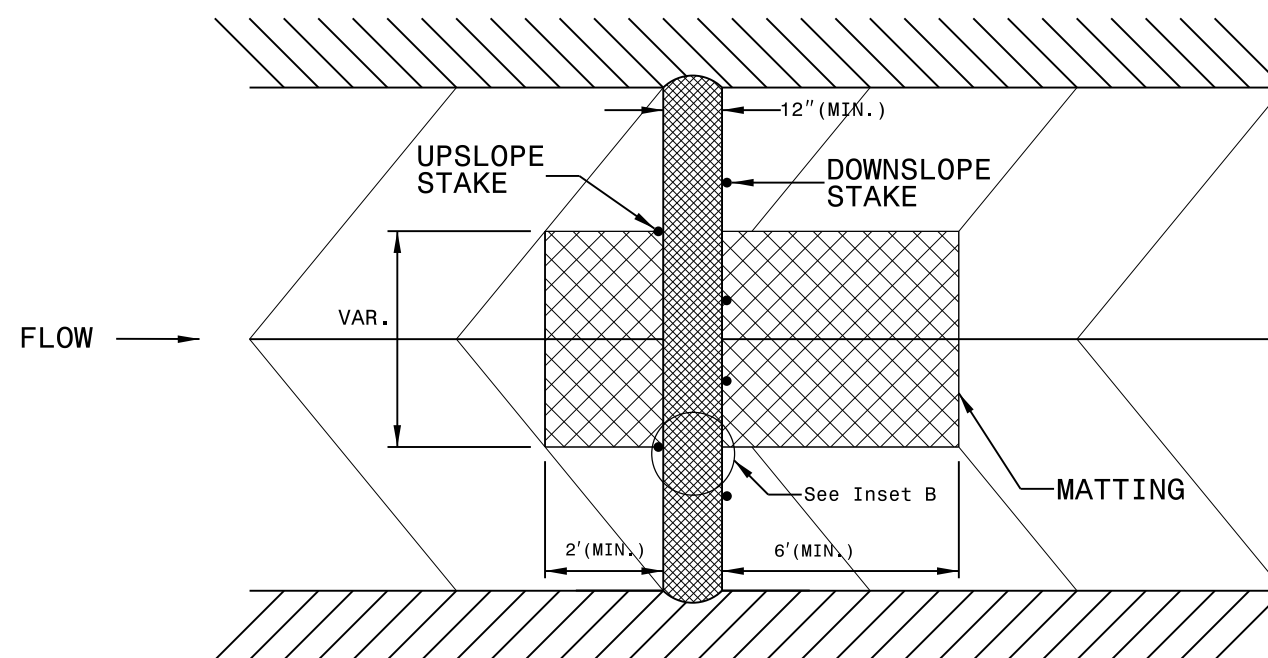
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



**INSET A**



**INSET B**



**TOP VIEW**